



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE



In re the application of: BARNES, Glenn *et al.*

Serial No.: 10/071411

Filed: February 7, 2002

For: *DETECTION OF POLYMORPHISMS IN THE
HUMAN 5-LIPOXYGENASE GENE*

Attorney Docket No.: MRI-021

Group Art Unit: 1637

Examiner: Wilder, Cynthia B.

Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

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Date of Deposit March 9, 2004

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DeAnn F. Smith, Esq.

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INFORMATION DISCLOSURE STATEMENT

Dear Sir:

Applicants and their Attorney are aware of the following publications and information, listed on the attached PTO Form SB/08, and in accordance with 37 CFR §1.97 hereby submit these publications for the Examiner's consideration. A copy of each cited publication is enclosed.


03/15/2004 BABRAHA1 00000041 120080 10071411

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This statement is not to be interpreted as a representation that the cited publications are material, that an exhaustive search has been conducted, or that no other relevant information exists. Nor shall the citation of any publication herein be construed *per se* as a representation that such publication is prior art. Moreover, Applicants understand that the Examiner will make an independent evaluation of the cited publications.

In accordance with 37 CFR §1.97(d)(2) and §1.17(p), please charge the \$180.00 submission fee to our Deposit Order Account No. 12-0080. Please charge any necessary additional fees or credit any overpayments to our Deposit Order Account No. 12-0080.

Respectfully submitted,
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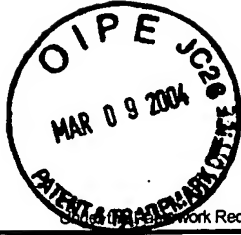
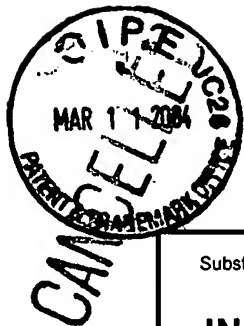


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| | | | | Examiner Name | Wilder, Cynthia B. |
| Sheet | 1 | of | 3 | Attorney Docket Number | MRI-021 |

| U.S. PATENT DOCUMENTS | | | | | |
|-----------------------|--------------------------|--|-----------------------------------|--|---|
| Examiner Initials* | Cite No. ¹ | Document Number | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
| | | Number-Kind Code ² (if known) | | | |
| | A1 | 5,750,565 | 05-12-1998 | Cai <i>et al.</i> | |
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|--------------------------|--------------------------|---|--|-----------------------------------|--|---|----------------|
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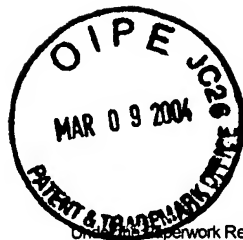
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| | A3 | Balcerek, J.M. <i>et al.</i> "Isolation and characterization of a cDNA clone encoding rat 5-lipoxygenase." <i>The Journal of Biological Chemistry</i> 263(27):13937-41 (1988). | | |
| | A4 | Barnard, D.F. <i>et al.</i> "An evaluation of the Coulter VCS differential counter." <i>Clin. lab. Haemat.</i> 11(3):255-66 (1989). | | |
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| | A6 | Dixon, R.A.F. <i>et al.</i> "Cloning of the cDNA for human 5-lipoxygenase." <i>Proc. Natl. Acad. Sci. USA</i> 85(2):416-20 (1988). | | |
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| | A8 | Foresi, A. <i>et al.</i> "Eosinophils, mast cells, and basophils in induced sputum from patients with seasonal allergic rhinitis and perennial asthma: relationship to methacholine responsiveness." <i>J. Allergy Clin. Immunol.</i> 100(1):58-64 (1997). | | |
| | A9 | Funk, C.D. <i>et al.</i> "Characterization of the human 5-lipoxygenase gene." <i>Proc. Natl. Acad. Sci. USA</i> 86(8):2587-91 (1989). | | |
| | A10 | George, J. <i>et al.</i> "12/15-Lipoxygenase gene disruption attenuates atherogenesis in LDL receptor-deficient mice." <i>Circulation</i> 104:1646-50 (2001). | | |

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| | B1 | Hoshiko, S. <i>et al.</i> "Characterization of the human 5-lipoxygenase gene promoter." <i>Proc. Natl. Acad. Sci. USA</i> 87(23):9073-7 (1990). | | |
| | B2 | In, K.H. <i>et al.</i> "Naturally occurring mutations in the human 5-lipoxygenase gene promoter that modify transcription factor binding and reporter gene transcription." <i>J. Clin. Invest.</i> 99(5):1130-7 (1997) | | |
| | B3 | Israel, E. <i>et al.</i> "The effect of inhibition of 5-lipoxygenase by zileuton in mild-to-moderate asthma." <i>Annals of Internal Medicine</i> 119(11):1059-66 (1993). | | |
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| | B5 | Khachigian, L.M. <i>et al.</i> "Interplay of Sp1 and Egr-1 in the proximal platelet-derived growth factor A-chain promoter in cultured vascular endothelial cells." <i>The Journal of Biological Chemistry</i> 270(46):27679-86 (1995). | | |
| | B6 | Li, L. <i>et al.</i> "Positive regulation of human $\alpha 1$ (I) collagen promoter activity by transcription factor Sp1." <i>Gene</i> 164(2):229-34 (1995). | | |
| | B7 | Lönnkvist, K. <i>et al.</i> "Eosinophil markers in blood, serum, and urine for monitoring the clinical course in childhood asthma: impact of budesonide treatment and withdrawal." <i>J. Allergy Clin. Immunol.</i> 107(5):812-7 (2001). | | |
| | B8 | Matsumoto, T. <i>et al.</i> "Molecular cloning and amino acid sequence of human 5-lipoxygenase." <i>Proc. Natl. Acad. Sci. USA</i> 85(1):26-30 (1988). | | |
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| | B11 | O'Byrne, P.M. "Leukotrienes in the pathogenesis of asthma." <i>Chest</i> 111(2 Suppl):27S-34S (1997). | | |
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| | B13 | Powell, W.S. <i>et al.</i> "Eotaxin and RANTES enhance 5-oxo-6,8,11,14-eicosatetraenoic acid-induced eosinophil chemotaxis." <i>J. Allergy Clin. Immunol.</i> 107(2):272-8 (2001). | | |
| | B14 | Samuelsson, B. "Leukotrienes: mediators of immediate hypersensitivity reactions and inflammation." 220(4597):568-75 <i>Science</i> (1983). | | |
| | B15 | Samuelsson, B. <i>et al.</i> "Leukotrienes and lipoxins: structures, biosynthesis, and biological effects." <i>Science</i> 237(4819):1171-6 (1987). | | |

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| | C1 | Silverman, E. <i>et al.</i> "Pharmacogenetics of the 5-lipoxygenase pathway in asthma." <i>Clinical and Experimental Allergy</i> 28 Suppl 5:164-70 (1998). | |
| | C2 | Tang, J-L. <i>et al.</i> "Role of Sp1 in transcriptional activation of human nitric oxide synthase type III gene." <i>Biochemical and Biophysical Research Communications</i> 213(2):673-80 (1995). | |
| | C3 | Ulrik, C.S. "Eosinophils and pulmonary function: an epidemiologic study of adolescents and young adults." <i>Annals of Allergy, Asthma, & Immunology</i> 80(6):487-93 (1998). | |
| | C4 | Urasaki, T. <i>et al.</i> "Pivotal role of 5-lipoxygenase in the activation of human eosinophils: platelet-activating factor and interleukin-5 induce CD69 on eosinophils through the 5-lipoxygenase pathway." <i>Journal of Leukocyte Biology</i> 69(1):105-12 (2001). | |
| | C5 | Wariishi, S. <i>et al.</i> "A SP1 binding site in the GC-rich region is essential for a core promoter activity of the human endothelial nitric oxide synthase gene." <i>Biochemical and Biophysical Research Communications</i> 216(2):729-35 (1995). | |

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